

Date: Monday, 3/6/2006 1:53:21 PM  
 User: Kim Johnston

## Process Sheet

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : SPACEPOD ASSEMBLY LH  
 Job Number : 26066  
 Estimate Number : 10800  
 P.O. Number : N/A Part Number : D350600141  
 This Issue : 3/6/2006 S.O. No. : N/A Drawing Number : D3188 REV A / A / ICA-D350-600 p021,24  
 Prsht Rev. : NC Project Number : N/A  
 First Issue : N/A Type : SMALL / MED FAB Drawing Revision : A/A 1/2 06-03-07  
 Previous Run : 25852 Material : N/A  
 Due Date : 3/31/2006 Qty: 1 Um: Each  
 Written By :  
 Checked & Approved By : 06.03.06  
 Comment : Est Rev: D 06.04.14 Incorporated procedures from D3187-1/2 K J/JLM

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 DC DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile and type labels as per PPP D350-600-141 CHG002

KS 06-03-07 ①

2.0 26066A SPACEPOD BODY LH



Comment: Sub-Component SPACEPOD BODY LH

3.0 26066B SPACEPOD DOOR LH



Comment: Sub-Component SPACEPOD DOOR LH

4.0 D31871 Spacepod Floor



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
1	D3187-1	Floor	B25404
1	D3186-1	Door (ref)	26066 B
1	D3188-1	Body(ref)	26066 A

5.0 ALS41032130 Insert



Comment: Qty.: 28.0000 Each(s)/Unit Total: 28.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
28	ALS4-1032-130	Insert	M18293

ml 06/08/01

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

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Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

1-Transfer drill (#30) from D3187-1. Open holes in floor to Ø0.297". Install inserts as per Dwg D3188.

*mloc/08/21*

7.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

*N/A*

8.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

1-Open holes in D3187-2 as per Dwg 3187

2-Deburr D3187-2

*mloc/08/21*

9.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

*06-08-29*

10.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

*FL 06 09 05*

11.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat Black Sandtex (Ref: 4.3.5.7) as per QSI 005 4.3

*Q.M 06-09-07*

12.0

QC3/5

INSPECT WORK/WING WALK



Comment: INSPECT WORK/WING WALK

*06-09-07*

*QC3-7 FC 06 09 07*

13.0

D2986

Black Neoprene foam .125



Comment: Qty.: 5.9010 sf(s)/Unit Total : 5.9010 sf(s)

Pick:

Qty Part Number

Description

Batch

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Part Number: D350600141

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.62SF D2986

Neoprene Foam

B24628

SAD 06:09:14

14.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

1-Cut D2986 Neoprene Foam per template D2986T1

> ml 06/08/21

2-Attach Neoprene Foam using Contact Cement

A/R Contact Cement

Batch: ~~B24628~~

SAD 06:09:14

ml 06/08/21

15.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

SB 06/09/14

16.0

D2179

Doubler



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 D2179 Hinge Bracket Plate

B26077

17.0

D2219

Door Prop Doubler



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2219 Door Support Bracket

B14027

18.0

D2228

Backing Plate



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 D2228 Backing Plate

B24560

19.0

D2237

Striker Plate



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number Description Batch

3 D2237 Strike Plate

B25327

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number:



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Machine Or Operation:

Description :

20.0

D2464

3/4 Seal



Comment: Qty.: 10.9305 f(s)/Unit Total : 10.9305 f(s)

Pick:

Qty Part Number Description Batch

1 D2464-125" neoprene Seal B25153

✓

21.0

D2586

Door Latch



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number Description Batch

3 D2586 Latch B26079

✓

22.0

D2588

Bracket



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2588 Mounting Channel B21509

✓

23.0

D2589

Keys, Key Chain



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2589 Key Chain B26031

✓

24.0

D2621

Latch Plate



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number Description Batch

3 D2621 Latch Plate B25474

✓

25.0

D28571

Hinge Bracket



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2857-1 Hinge Bracket B26501

✓

W/O:		WORK ORDER CHANGES							
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Job Number:



Seq. #:

Machine Or Operation:

Description :

26.0

D28572

Hinge Bracket



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2857-2 Hinge Bracket B26034

27.0

D2977

Hinge Bracket



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 D2977 Hinge Bracket B14106

28.0

D2978

Hinge Bracket



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 D2978 Hinge Bracket B14107

29.0

D2982041

Prop Arm Assembly



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D2982-041 Prop Arm Assembly B27507

30.0

D30153

Lock Nut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D3015-3 Lock Nut B22365

31.0

A3235020935

Washer - Countersunk



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Pick:

Qty Part Number Description Batch

8 A3235-020-935 Washer M100477

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number:



Seq. #:	Machine Or Operation:	Description :
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32.0	AN526C832R9	Screw
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Comment: Qty.: 12.0000 Each(s)/Unit Total : 12.0000 Each(s)

Pick:

Qty Part Number Description Batch

12 AN526C832R9 Screw M100447

✓

33.0	AN960JD10	Washer
------	-----------	--------



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number Description Batch

3 AN960JD10 Washer M100743

✓

34.0	AN960JD516	Washer
------	------------	--------



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 AN960JD516 Washer M15927

✓

35.0	AN960JD8	Washer
------	----------	--------



Comment: Qty.: 16.0000 Each(s)/Unit Total : 16.0000 Each(s)

Pick:

Qty Part Number Description Batch

16 AN960JD8 Washer M11989

✓

36.0	AN960JD8L	Washer
------	-----------	--------



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Pick:

Qty Part Number Description Batch

4 AN960JD8L Washer M6956

✓

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Job Number:



Seq. #:

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Description :

37.0

MS20426AD45

Rivet



Comment: Qty.: 6.0000 Each(s)/Unit Total : 6.0000 Each(s)

Pick:

Qty Part Number Description Batc

6 MS20426AD4-5 Rivet M 3459

PTO

38.0

MS21042L08

Nut



Comment: Qty.: 14.0000 Each(s)/Unit Total : 14.0000 Each(s)

Pick:

Qty Part Number Description Batch

14 MS21042L08 Nut (or -8) M 100564

10

✓

39.0

MS21042L3

Nut



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number Description Batch

3 MS21042L3 Nut (or -3) M 15539

✓

40.0

MS270390810

Screw



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 MS27039-0810 Screw M 5865

✓

41.0

MS27039125

Screw



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number Description Batch

3 MS27039-1-25 Screw M 17570

✓

42.0

SL69BS

Ball Stud



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 SL69-BS Ball Stud M 16948

✓

24

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
06/08/21	37	<u>add on list</u> Permanent change missing: 2 Rivets MS20426 AD4-6 <u>M2566</u> <del>*Change</del> in process by engineering		ml				 06-08-21

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: Date: 06/09/20  
QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Job Number: 26066

Part Number: D350600141

Job Number:



Seq. #:

Machine Or Operation:

Description :

43.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

Assemble D3186-2 door with D3188-2 body as per Dwg ICA-D350-600

*ml 06/08/21*

*(P10)*

44.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Wing Walk Spacepod top surface of Pod as per Dwg D3188-2 & QSI 005 4.4

Batch: *ml 06/07*

*FC 06 09 05*

45.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: Inspect Wing Walk

*Jul 08 06*

46.0

K10018

Spacepod Hardware Kit



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

1 K10018

Spacepod Hardware Kit

1 D3187-1(Ref)

Spacepod Floor

*9B27875*  
*9B25404*  
*06/09/19*

47.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

*PU 06/09/19*

48.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-600-141

Location:

PPP Rev:

*06/09/19*

49.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

*06/09/20*

Job Completion



*u 06.9.20*

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
06-08-29	43.1	Add QC 5 for ASS'y inspection.							
		QC 5			06-08-29	1		06-08-29	

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: DP Date: 06/09/20  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries





DESIGN JB	DRAWN BY <i>CP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3188	REV. A SHEET 1 OF 7
DATE 03.04.03		TITLE SPACEPOD BODY	SCALE NTS
A	03.04.03	NEW ISSUE	

RELEASED  
*03.04.22*

**GENERAL NOTES:**

1. REFERENCE DIMENSIONS MATCH AIRCRAFT CONTOUR AND DOOR OPENING
2. LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING
3. MATERIALS:

RESIN: EPOCAST 50-A/9816 OR DERAKANE 470-36/411/510A40

FIBER: 9.7 oz 7781 WEAVE "S" GLASS (9 oz SATIN)  
12 oz UNIDIRECTIONAL FIBERGLASS ("12 OZ UNIDIRECTIONAL")  
18 oz ROVING "E" GLASS (18 oz CLOTH)  
OWENS CORNING MILLED FIBERS, "E" GLASS  
3M K20 GLASS BUBBLES

FOAM: A500 CORE CELL  
OR DIVINYCELL  
OR AIREX  
OR KLEGECELL  
FILL VOIDS IN FOAM WITH PASTE MADE FROM MILLED FIBERS & RESIN

4. MOLD SCHEDULE:

<u>PART</u>	<u>LAYUP</u>	<u>TRIM AND DRILL</u>
D3188-1	DT8003	DT8501
D3188-2	DT8004	DT8502
D3188-3	DT8500	DT8501

5. APPLY ANTI-SKID PAINT TO TOP SURFACE OF PODS PER QSI 005 4.4
6. FINISH: INSIDE/OUTSIDE WITH GREY DUPONT HIGHBUILD PRIMER 1144-S

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WITHOUT NOTICE  
WORK ORDER  
NO *26066*

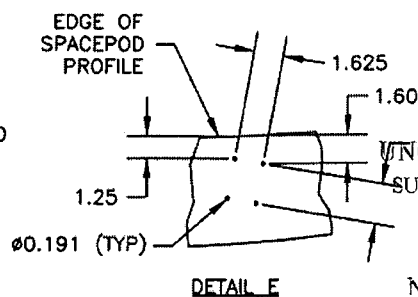
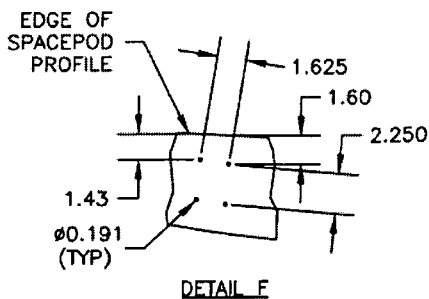
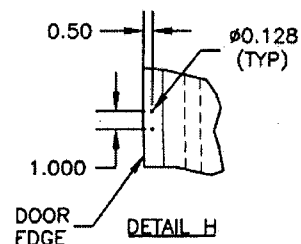
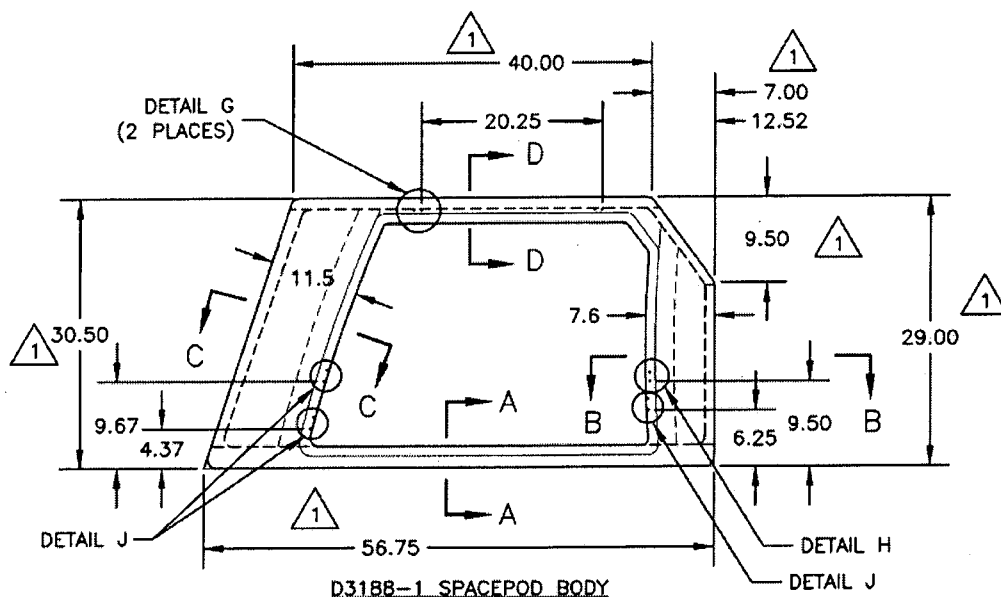
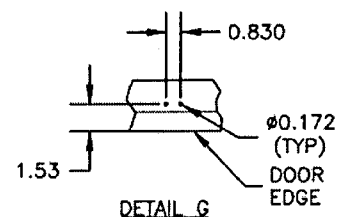
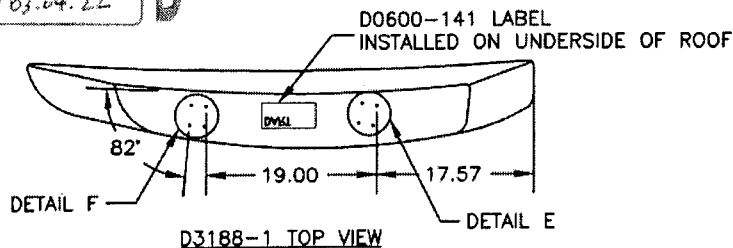
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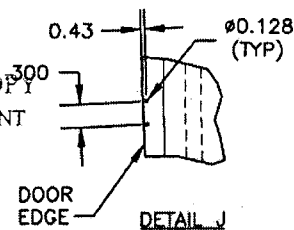


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CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3188	REV. A SHEET 2 OF 7
DATE 03.04.03		TITLE SPACEPOD BODY	SCALE NTS

RELEASED  
# 03.04.22



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NO. 26066



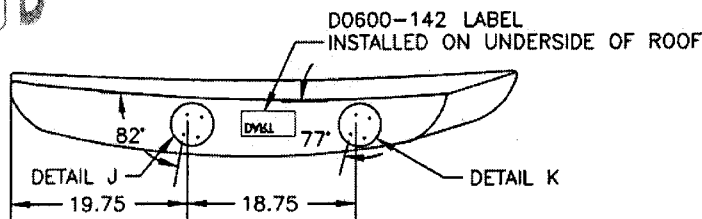
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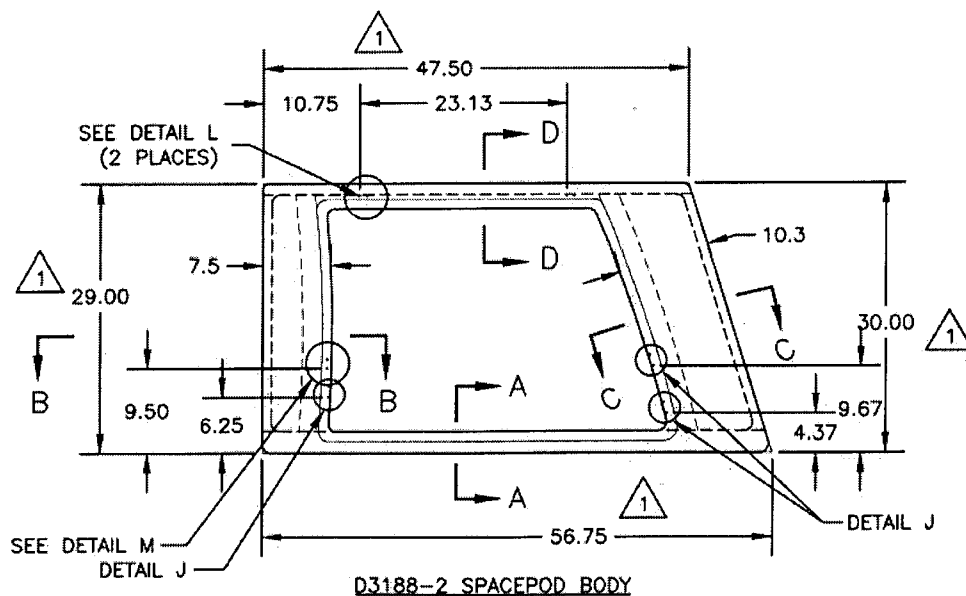
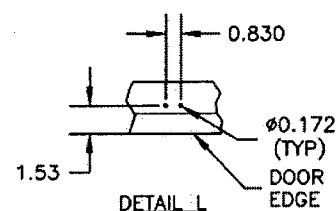


DESIGN JB	DRAWN BY <i>JP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3188	REV. A SHEET 3 OF 7
DATE 03.04.03	TITLE SPACEPOD BODY		SCALE NTS

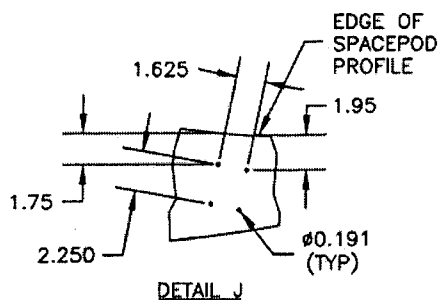
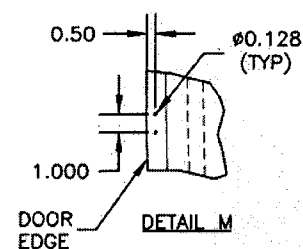
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# 03.04.22



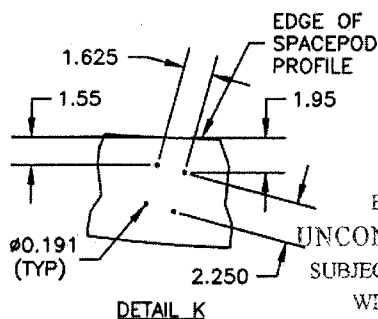
D3188-2 TOP VIEW



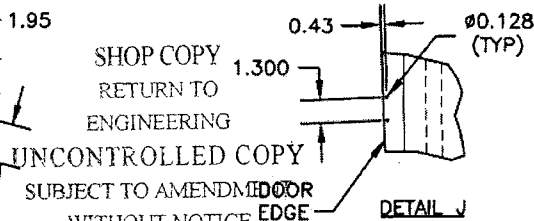
D3188-2 SPACEPOD BODY



DETAIL J



DETAIL K



DETAIL J

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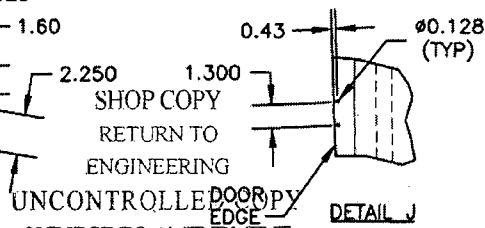
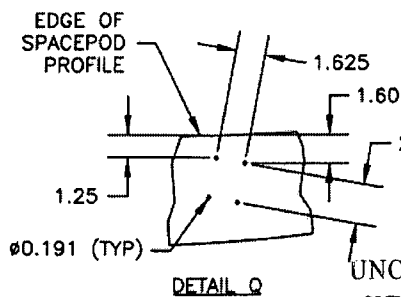
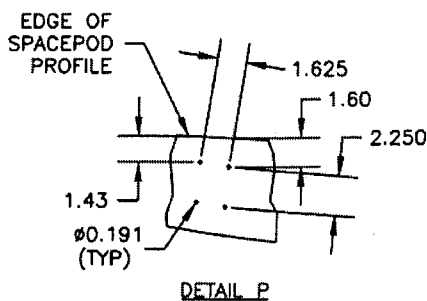
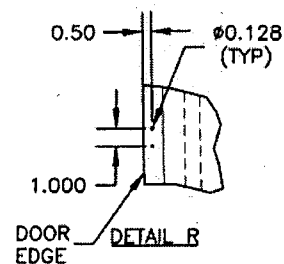
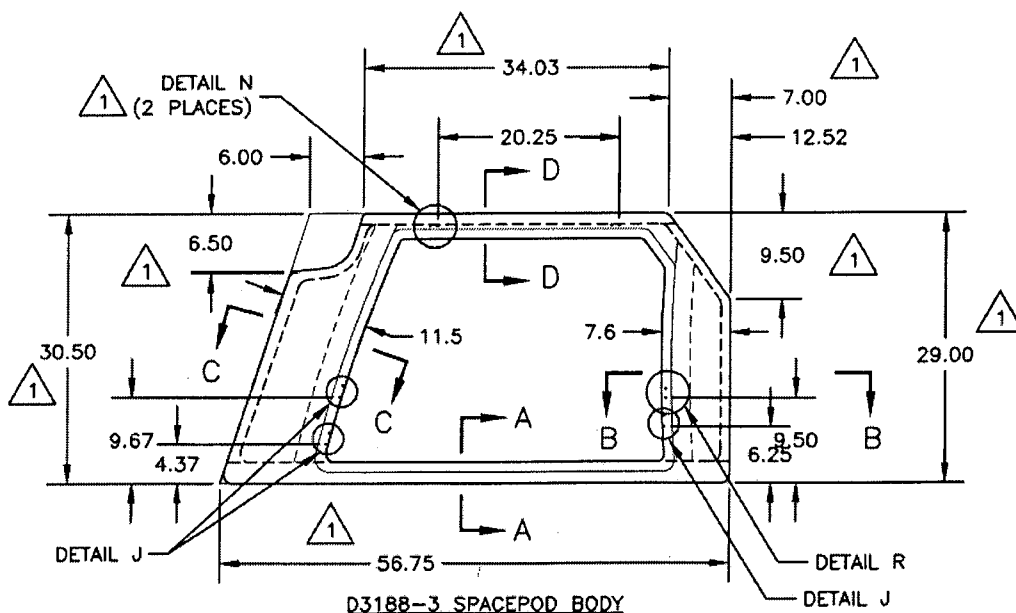
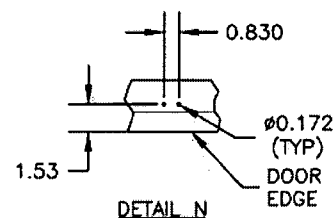
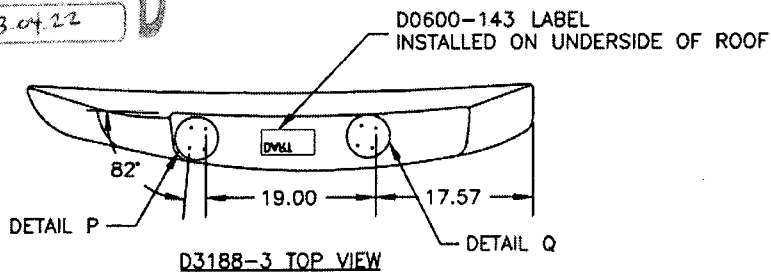
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DATE 03.04.03	TITLE SPACEPOD BODY		SCALE NTS

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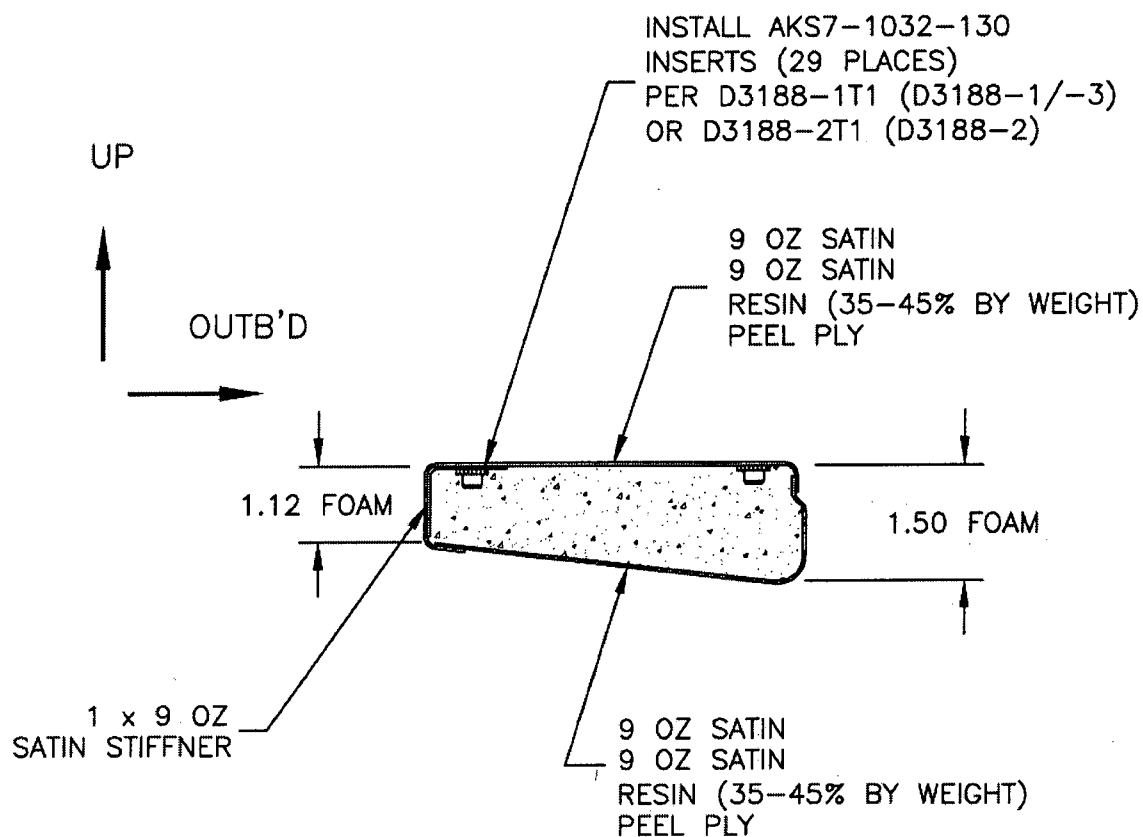
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SECTION A-A  
(TYPICAL FLOOR SECTION)

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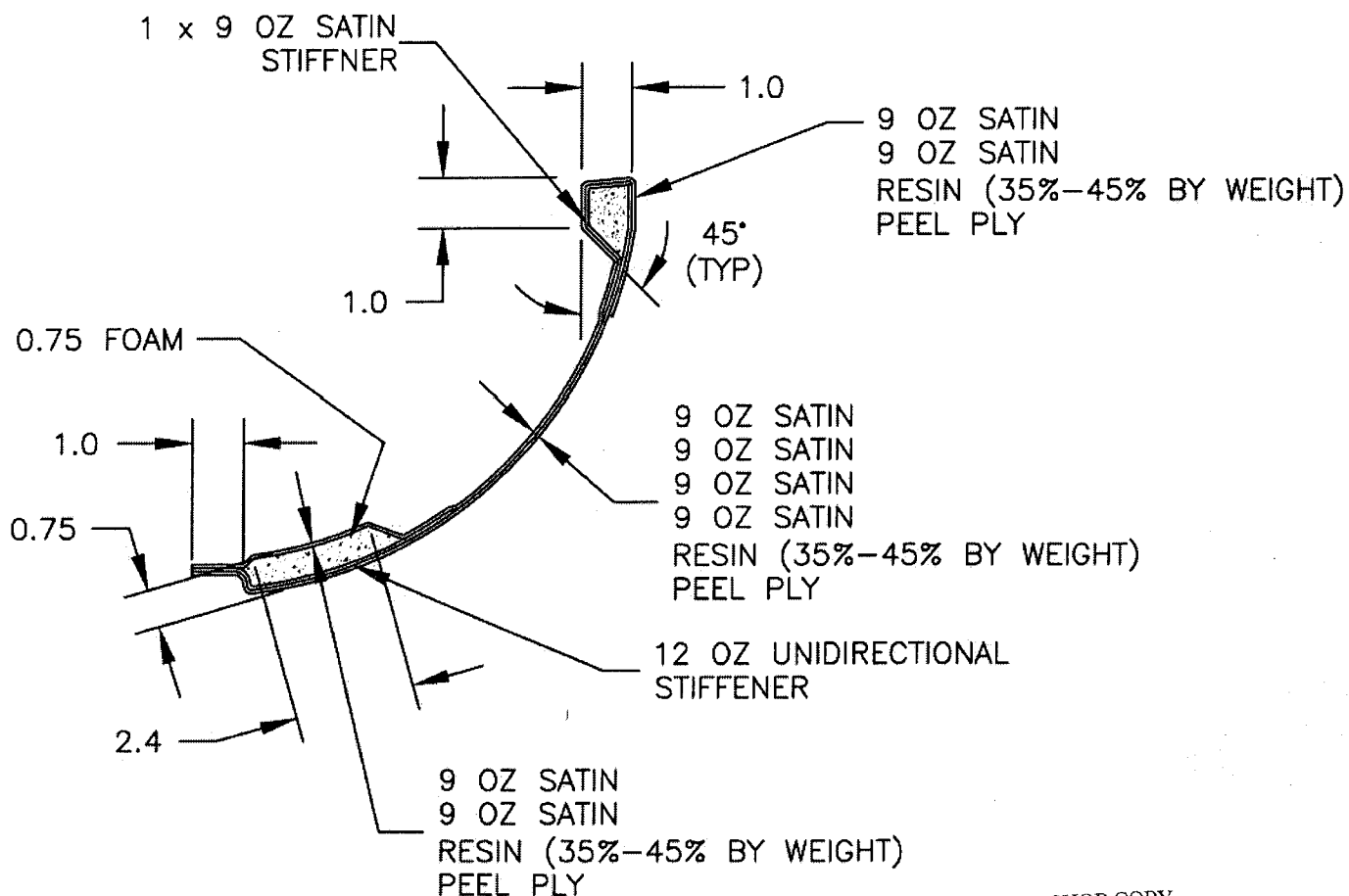
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SECTION B-B  
(SECTION C-C SIMILAR)

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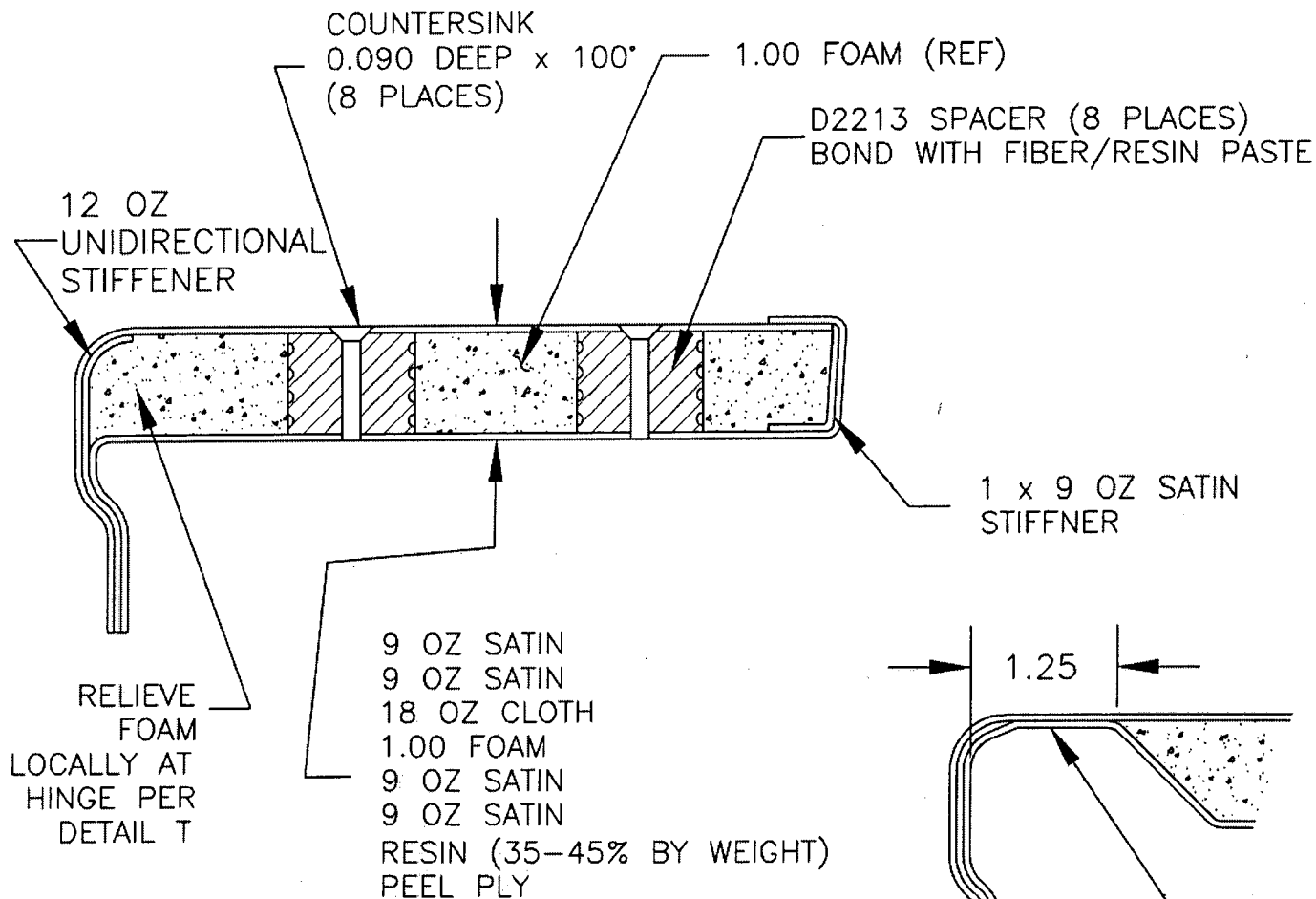
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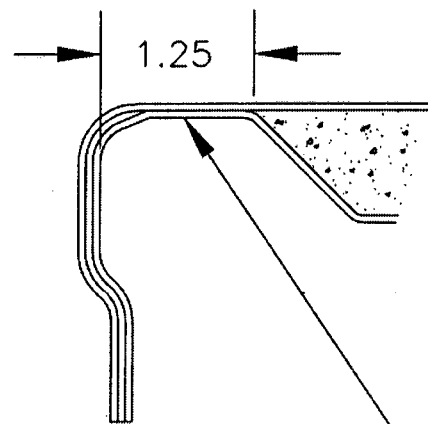


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SECTION D-D  
(TYPICAL ROOF SECTION)



RELIEVE AS SHOWN  
3" LONG CENTERED  
ON HINGE

DETAIL T

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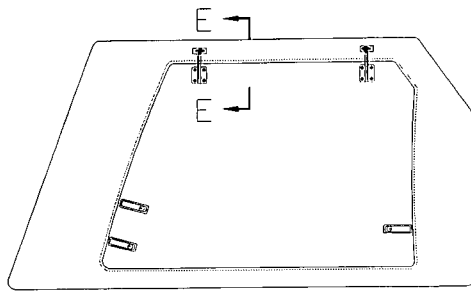


FIGURE 3. LOOKING AT OUTSIDE OF  
D350-600-145 DOOR  
(D350-600-146 SIMILAR AND OPPOSITE)

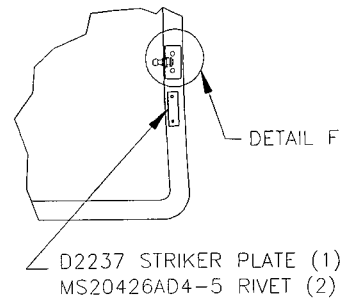


FIGURE 4. TYPICAL DOOR FRAME (AFT EDGE)

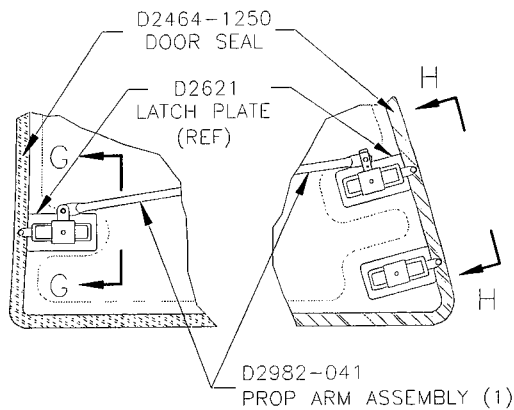
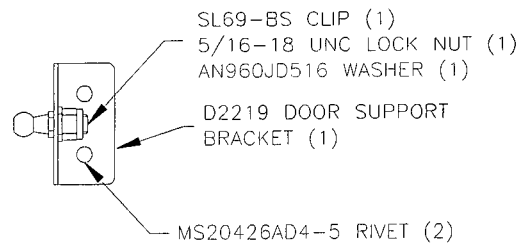


FIGURE 5. LOOKING AT TYPICAL INSIDE  
OF D350-600-145/-146 DOOR



DETAIL F

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**MAY 07 2003**

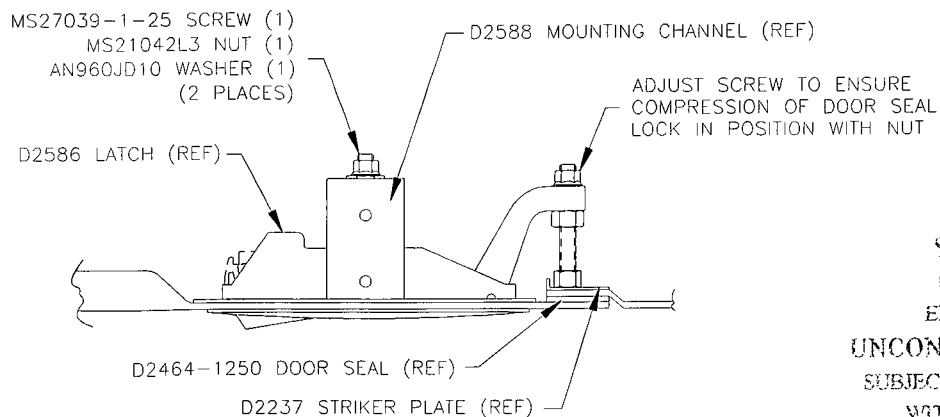
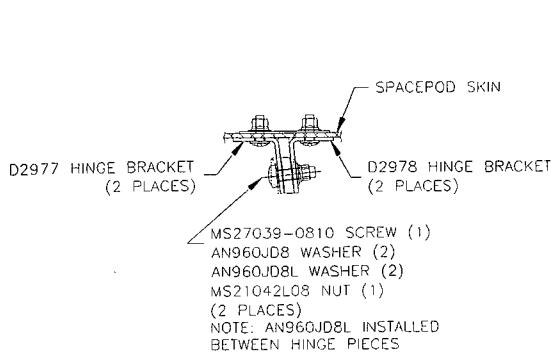


FIGURE 6. TYPICAL LATCH INSTALLATION

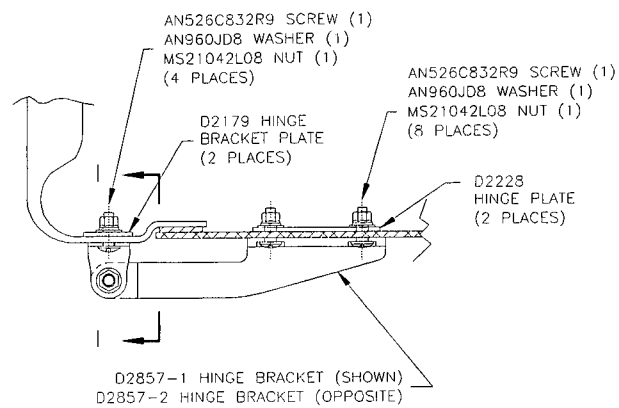
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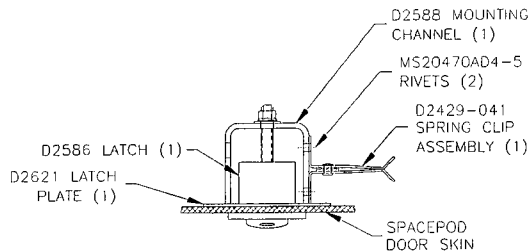




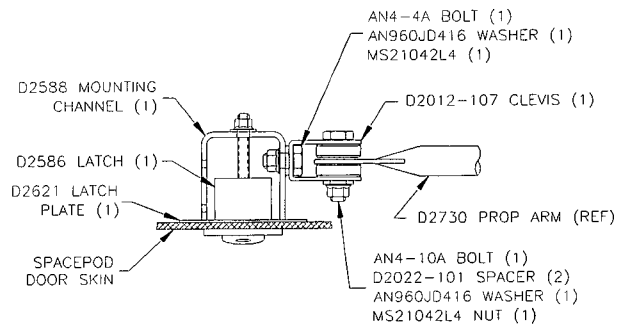
SECTION I-I: HINGE BRACKET



SECTION E-E: HINGE DETAIL FROM FIGURE 3



SECTION H-H: FWD LATCH



SECTION G-G: AFT LATCH

## 25.3 SPACEPOD™ REMOVAL

1. Remove D350-600-045/-145 or -046/-146 door.
2. Remove battery shelf and wiring covers as applicable.
3. Loosen floor and D2174-041 bracket fasteners shown in section A-A, B-B, and C-C of Figure 2. Leave inserts in the compartment floor.
4. Remove **Spacepod™** body from the compartment.
5. Remove D2174-041 brackets.
6. Re-install battery shelf and wiring covers.
7. Re-install outbound tiedown "D" rings.
8. Re-install door latch tiedown brackets in the compartment floor.
9. Re-install baggage retaining net.
10. Re-install original side baggage compartment door.

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